

**REMARKS**

Reconsideration and allowance are respectfully requested.

Applicant and the undersigned appreciate the courtesies extended by Examiners Hu and Owens during the personal interview conducted on October 16, 2009. As noted in the Examiner's interview summary provided in person by the Examiner, the Examiner agreed to withdraw the 112 rejections and requested that Figures 7 and 8 be corrected. The attached replacement Figures 7 and 8 correct a clerical error in which the graph in original Figure 7 should have been labeled Figure 8 and the graph in original Figure 8 should have been labeled Figure 7. As agreed in the interview, the headings over these graphs are removed to avoid possible confusion.

Many of the features of claim 1 and contrasting them with the teachings in Falk, Proctor, and Derneryd reference. Applicants argued that these references did not teach (1) in the "symmetric interleaved transmit/receive array," "a distance between each transmitting array column in the array antenna is one wavelength of the transmitting frequency," (2) in the "symmetric interleaved transmit/receive array," "a distance between each receiving array column in the array antenna is one wavelength of the receiving frequency," and (3) the "symmetric interleaved transmit/receive array" being "scannable to reduce sidelobes entering visual space when scanning the main radiation lobe from an off boresight direction" as a result of "receiving radiator elements in the receiving array columns operat[ing] as parasitic elements in a transmit mode" and "transmitting radiator elements in the transmitting array columns operat[ing] as parasitic elements in a receive mode."

It was agreed that claim 1 would be amended to recite that "the sparse array antenna ... is arranged to be scannable in more than one direction to reduce sidelobes entering visual space

SVENSSON ET AL.  
Appl. No. 10/580,611  
October 23, 2009

when scanning the main radiation lobe from an off boresight direction." This amendment coupled with the claim features noted above was agreed to overcome the prior art rejection.

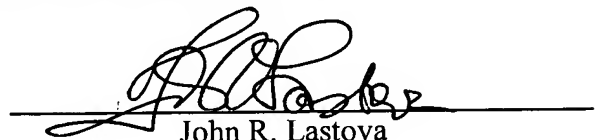
Consideration of the IDS filed on a Monday, October 5, 2009, is requested. The certification is believed timely because the three month certification date of October 3, 2009, fell on a Saturday. Thus, no fee is believed due. However, should the Examiner disagree, authorization is provided here to charge the undersigned's Deposit Account No. 14-1140 as noted in the IDS as well.

The application is in condition for allowance. An early notice to that effect is requested.

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

By: \_\_\_\_\_

  
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